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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: Desilting and resetting of drain and re asphalting Soap factory layout in Bagalagunte, ward no.14, Dasarahalli Sub Division.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	RCC(M20)	Compressive Strength(7days and 28days)	6 sets /100-150 cum	104.19	12	12
8	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1

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9	DBM	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral Aggregate	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
10	BC	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
11	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
12	TACK COAT	Rate of spread	One Test		1	1

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-04-06-06** **Date: 04-11-22**
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Desilting and resetting of drain and re asphalting Soap factory layout in Bagalagunte, ward no.14, Dasarahalli Sub Division.
Agency	:	Sri Shivakumar N M, #7, 2nd Block, Juganahalli, Rajajinagar, Bangalore
Customer's Reference	:	EE/DD/W.O/1621/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-11-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING. Clause 4 4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	02-11-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	1.92	–
2	Finess by Air permeablity method (m^2/kg,Min)	298.2	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	265 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

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Samples will be disposed after 30 days from the date of issue of test certificate

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Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-04-06-06** **Date: 30-11-22**
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Desilting and resetting of drain and re asphalting Soap factory layout in Bagalagunte, ward no.14, Dasarahalli Sub Division.
Agency	:	Sri Shivakumar N M, #7, 2nd Block, Juganahalli, Rajajinagar, Bangalore.
Customer's Reference	:	EE/DD/W.O/1621/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-11-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5) 1988 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	02-11-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

SLNo.	Physical properties	Results	Requirement as per IS 269:2015
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.0N/mm^2	Not less than 53 N/mm^2

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Quality Manager

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-04-06-06** **Date: 04-11-22**
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Desilting and resetting of drain and re asphalting Soap factory layout in Bagalagunte, ward no.14, Dasarahalli Sub Division.
Agency	:	Sri Shivakumar N M, #7, 2nd Block, Juganahalli, Rajajinagar, Bangalore.
Customer's Reference	:	EE/DD/W.O/1621/2022-23
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	01-11-22
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-11-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	253	253	1.7	98.3	90-100
3	20 mm	5422	5675	37.8	62.2	30-70
4	10 mm	4132	9807	65.4	34.6	10-35
5	4.75 mm	4852	14659	97.7	2.3	0-5
6	Pan	341	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-04-06-06** **Date: 04-11-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.1	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.47	–
5	Bulk Density(Compacted) (Kg/l)	1.53	–
6	Water Absorption(%)	0.23	–

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-04-06-06** **Date: 03-11-22**
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Desilting and resetting of drain and re asphalting Soap factory layout in Bagalagunte, ward no.14, Dasarahalli Sub Division.
Agency	:	Sri Shivakumar N M, #7, 2nd Block, Juganahalli, Rajajinagar, Bangalore.
Customer Reference	:	EE/DD/W.O/1621/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-11-22
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-11-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	235	235	4.7	95.3	90-100
3	10 mm	2470	2705	54.1	45.9	25-55
4	4.75 mm	2133	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-04-06-06** **Date: 03-11-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	9.5	
3	Specific Gravity	2.67	–
4	Bulk Density(Loose) (Kg/l)	1.52	–
5	Bulk Density(Compacted) (Kg/l)	1.57	–
6	Water Absorption(%)	0.25	–
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.4	30% for Aggregates to be used in concrete for wearing Surface. 45% for Aggregates to be used in concrete other than for wearing Surface.

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2023-04-06-06 **Date: 03-11-22**

Customer : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.

Address : T Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Desilting and resetting of drain and re asphalting Soap factory layout in Bagalagunte, ward no.14, Dasarahalli Sub Division.

Agency : Sri Shivakumar N M, #7, 2nd Block, Juganahalli, Rajajinagar, Bangalore.

Customer's Reference : EE/DD/W.O/1621/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-11-22

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 01-11-22

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	38	38	3.8	96.2	90-100	90-100	90-100	95-100
3	2.36 mm	44	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	215	297	29.7	70.3	30-70	55-90	75-100	90-100
5	600 micron	245	542	54.2	45.8	15-34	35-59	60-79	80-100
6	300 micron	201	743	74.3	25.7	5-20	8-30	12-40	15-50
7	150 micron	178	921	92.1	7.9	0-10	0-10	0-10	0-15
8	Pan	79	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-04-06-06** **Date: 03-11-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.47	–
2	Specific Gravity	2.52	–
3	Material finer than 75 micron(%)	7.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID	:	CP-2023-04-06-06 **Date: 02-11-22**
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Desilting and resetting of drain and re asphalting Soap factory layout in Bagalagunte, ward no.14, Dasarahalli Sub Division.
Agency	:	Sri Shivakumar N M, #7, 2nd Block, Juganahalli, Rajajinagar, Bangalore.
Customer's Reference	:	EE/DD/W.O/1621/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-11-22
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test	:	01-11-22

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2023-04-06-06 **Date: 21-11-22**

Customer : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.

Address : T Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Desilting and resetting of drain and re asphalting Soap factory layout in Bagalagunte, ward no.14, Dasarahalli Sub Division.

Agency : Sri Shivakumar N M, #7, 2nd Block, Juganahalli, Rajajinagar, Bangalore.

Customer's Reference : EE/DD/W.O/1621/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-11-22

Sample Type /Size : Precast Cover Slab -100mm Thick

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 17/11/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	77.51	100.48	1.116	4718	100.9	21.4	19.9	24.9
2	Cover Slab-2	77.49	100.52	1.122	4715	102.3	21.7	20.2	25.2
3	Cover Slab-3	77.50	100.51	1.118	4716	101.5	21.5	20.0	25.0

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-04-06-06 **Date: 23/11/2022**

Customer : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.

Address : T Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Desilting and resetting of drain and re asphalting Soap factory layout in Bagalagunte, ward no.14, Dasarahalli Sub Division.

Agency : Sri Shivakumar N M, #7, 2nd Block, Juganahalli, Rajajinagar, Bangalore.

Customer's Reference : EE/DD/W.O/1621/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-11-22

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	16/11/2022	23/11/2022	151.93 X 151.08 X 150.81	22954	8.511	426.4	18.6	18.7
2	Drain Bottom Slab Concrete	M20	16/11/2022	23/11/2022	150.64 X 149.95 X 149.51	22588	8.372	426.9	18.9	
3	Drain Bottom Slab Concrete	M20	16/11/2022	23/11/2022	151.08 X 151.35 X 151.51	22867	8.172	423.5	18.5	

* The results obtained are satisfactory as per standard requirements.

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

ASSISTANT EXECUTIVE ENGINEER
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-04-06-06** **Date: 14/12/2022**
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Desilting and resetting of drain and re asphalting Soap factory layout in Bagalagunte, ward no 14, Dasarahalli Sub Division.
Agency	:	Sri Shivakumar N M, #7, 2nd Block, Juganahalli, Rajajinagar, Bangalore.
Customer's Reference	:	EE/DD/W.O/1621/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-11-22
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	14/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	16/11/2022	14/12/2022	149.21 X 150.97 X 150.96	22527	8.532	530.6	23.6	23.2
2	Drain Bottom Slab Concrete	M20	16/11/2022	14/12/2022	150.49 X 149.20 X 150.56	22453	8.245	498.1	22.2	
3	Drain Bottom Slab Concrete	M20	16/11/2022	14/12/2022	151.92 X 151.51 X 150.11	23017	8.844	550.0	23.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-04-06-06 **Date: 26/11/2022**

Customer : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.

Address : T Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Desilting and resetting of drain and re asphalting Soap factory layout in Bagalagunte, ward no.14, Dasarahalli Sub Division.

Agency : Sri Shivakumar N M, #7, 2nd Block, Juganahalli, Rajajinagar, Bangalore.

Customer's Reference : EE/DD/W.O/1621/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-11-22

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	19/11/2022	26/11/2022	151.78 X 150.13 X 149.36	22786	8.596	432.8	19.0	18.6
2	Drain Side Wall Concrete	M20	19/11/2022	26/11/2022	150.57 X 151.46 X 150.69	22806	8.373	428.6	18.8	
3	Drain Side Wall Concrete	M20	19/11/2022	26/11/2022	151.10 X 151.96 X 150.22	22962	8.942	417.0	18.2	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/12/2022

Lab ID	:	CP-2023-04-06-06
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Desilting and resetting of drain and re asphalting Soap factory layout in Bagalagunte, ward no.14, Dasarahalli Sub Division.
Agency	:	Sri Shivakumar N M, #7, 2nd Block, Juganahalli, Rajajinagar, Bangalore.
Customer's Reference	:	EE/DD/W.O/1621/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-11-22
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Side Wall Concrete	M20	19/11/2022	17/12/2022	150.74 X 151.32 X 150.15	22810	8.787	533.8	23.4	23.0
2	Drain Side Wall Concrete	M20	19/11/2022	17/12/2022	149.27 X 149.69 X 149.68	22344	8.163	496.4	22.2	
3	Drain Side Wall Concrete	M20	19/11/2022	17/12/2022	150.77 X 151.13 X 151.63	22787	8.618	531.9	23.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2023-04-06-06 **Date: 26/11/2022**
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Desilting and resetting of drain and re asphalting Soap factory layout in Bagalagunte, ward no.14, Dasarahalli Sub Division.
Agency	:	Sri Shivakumar N M, #7, 2nd Block, Jugarahalli, Rajajinagar, Bangalore.
Customer's Reference	:	EE/DD/W.O/1621/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-11-22
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	19/11/2022	26/11/2022	151.79 X 150.03 X 151.50	22773	8.353	431.7	19.0	18.8
2	Drain Side Wall Concrete	M20	19/11/2022	26/11/2022	151.92 X 151.72 X 151.95	23050	8.270	437.3	19.0	
3	Drain Side Wall Concrete	M20	19/11/2022	26/11/2022	150.68 X 151.18 X 151.88	22781	8.123	417.5	18.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-04-06-06** **Date: 17/12/2022**
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Desilting and resetting of drain and re asphalting Soap factory layout in Bagalagunte, ward no.14, Dasarahalli Sub Division.
Agency	:	Sri Shivakumar N M, #7, 2nd Block, Juganahalli, Rajajinagar, Bangalore.
Customer's Reference	:	EE/DD/W.O/1621/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-11-22
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	19/11/2022	17/12/2022	149.23 X 149.35 X 151.39	22287	8.907	522.0	23.4	23.4
2	Drain Side Wall Concrete	M20	19/11/2022	17/12/2022	151.87 X 149.85 X 149.14	22757	8.222	517.1	22.7	
3	Drain Side Wall Concrete	M20	19/11/2022	17/12/2022	151.77 X 151.61 X 149.36	23009	8.147	551.4	24.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-04-06-06

Date: 13/12/2022

Customer : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.

Address : T Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Desilting and resetting of drain and re asphalting Soap factory layout in Bagalagunte, ward no.14, Dasarahalli Sub Division.

Agency : Sri Shivakumar N M, #7, 2nd Block, Juganahalli, Rajajinagar, Bangalore.

Customer's Reference : EE/DD/W.O/1621/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-12-22

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	06/12/2022	13/12/2022	151.92 X 149.85 X 150.21	22767	8.347	411.6	18.1	18.2
2	Drain Bottom Slab Concrete	M20	06/12/2022	13/12/2022	149.04 X 151.78 X 150.49	22622	8.175	419.2	18.5	
3	Drain Bottom Slab Concrete	M20	06/12/2022	13/12/2022	150.48 X 149.54 X 149.60	22502	8.200	407.5	18.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-04-06-06 **Date: 03/01/2023**

Customer : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.

Address : T Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Desilting and resetting of drain and re asphalting Soap factory layout in Bagalagunte, ward no.14, Dasarahalli Sub Division.

Agency : Sri Shivakumar N M, #7, 2nd Block, Juganahalli, Rajajinagar, Bangalore.

Customer's Reference : EE/DD/W.O/1621/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-12-22

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/01/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	06/12/2022	03/01/2023	150.59 X 151.35 X 149.66	22790	8.531	542.3	23.8	23.4
2	Drain Bottom Slab Concrete	M20	06/12/2022	03/01/2023	151.03 X 149.76 X 149.62	22618	8.613	518.6	22.9	
3	Drain Bottom Slab Concrete	M20	06/12/2022	03/01/2023	150.40 X 150.34 X 149.96	22611	8.741	531.7	23.5	

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